

Cemfix PRO

High performance, easy workable cementitious tile adhesive with extended open time



Description

Cemfix PRO is a blend of cement, well graded aggregate and special additives that can be easily mixed with water to form a consistent and free of lumps tile adhesive excellent for bonding all types of ceramic tiles and natural stone on floors and walls.

Cemfix PRO is specially designed to be easier and quicker in mixing and application. The excellent workability properties of Cemfix PRO make it ideally suitable to be spread over vertical walls without sagging, and the extended open time feature that characterizes Cemfix PRO allows to apply it over larger areas and fix the tiles over these applied areas without any adverse effects on the adhesion strength.

Applications

- ▲ Excellent for wall and floor applications.
- ▲ Suitable for exterior and interior applications.
- ▲ Suitable for wet areas such as bathrooms and kitchens.
- ▲ Suitable for underfloor heating systems.
- ▲ On concrete, cement based mortar, screed and plaster.
- ▲ On drywall such as gypsum boards and fiber cement boards.

Advantages

- ▲ Extended open time for easier and quicker application.
- ▲ High bond strength to all common substrates.
- ▲ Easy to apply, non-sag with good workability.
- ▲ Ready mixed, just requires the addition of water.

Limitations

Do not use for:

- ▲ Continuously submerged conditions.
- ▲ Thick bed applications.
- ▲ Tile over tile applications.
- ▲ Cases that require a rapid utilization for the surfaces.
- ▲ On metal, rubber, PVC or wood substrates.

Note: For highly impervious tiles such as glass mosaics or full body porcelain tiles, Cemfix PRO should be mixed with Cemfix Enhance to improve the adhesion characteristics. Refer to Cemfix Enhance's datasheet or consult DCP's Technical Department for more information.

Technical Properties. W/P = 0.26

Colour:	White or grey
Fresh wet density:	1.8 ± 0.1 g/cm ³
Pot life:	2 hr @ 25°C
Open time:	30 min
ISO 13007-2,4.1	

Tensile adhesion strength in compliance with ISO 13007-2,4.4

Initial bond @ 28 days	> 0.5 MPa
After heat exposure	> 0.5 MPa
After water immersion	> 0.5 MPa
After freeze/thaw cycles	> 0.5 MPa

Slip:	< 0.5 mm
ISO 13007-2,4.2	

VOC:	< 10 g/ltr
ASTM D2369	(complies with LEED)

Standards

Cemfix PRO complies with the following standards:

- ▲ ISO 13007-1 and BS EN 12004 as a normal cementitious tile adhesive with slip resistance and extended open time (C1TE).
- ▲ ANSI A118.1 for shear strength requirements.

Method of Use

Substrate Preparation

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material. Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements. Gypsum boards, plaster boards, anhydrite screeds, or any highly absorbent cement based substrates such as hollow blocks and foam concrete must be sufficiently dry and free from dust. These substrates must be primed with Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water). Tiles should not be placed over expansion and contraction joints, these joints should be filled with a suitable flexible sealant from the DCP Flexseal range.



Cemfix PRO

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

5.0 - 5.4 litre of clean fresh water for each 20 kg bag (water/powder ratio of 0.25 - 0.27 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained. Allow a slake time for 2 - 3 minutes, then remix for additional 1 minute without adding any more water.

Application

- ▲ Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel.
- ▲ Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm.
- ▲ Place the tiles with firm pressure to ensure proper contact with the adhesive.
- ▲ It is always better to work in a manageable area that can be tiled within the open wet time of the adhesive.
- ▲ Leave the tiled surfaces for 24 hours before grouting.

Cleaning

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

Remarks

- ▲ Do not apply at temperature below 2°C.
- ▲ For heavy traffic areas, it is good practice to back butter the tile back surfaces with the adhesive to ensure 100% coverage.
- ▲ For large format and heavy tiles where the weight of the tiles cannot be supported by the adhesive, the installation method shall follow a bottom-up approach, and If more than two rows of tiles are to be fixed simultaneously, the tiles are to be mechanically supported using temporary anchor nails in between tile gaps or by using inclined support stud.

For further information please contact your local DCP Representation Office.

Packaging

Cemfix PRO is available in 20 kg bags.

Yield

Approximately 7 m²/20 kg bag @ 2 mm thickness.

Storage

Cemfix PRO has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

As Cemfix PRO contains Portland cement and sand, Cemfix PRO may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Cemfix PRO is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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